

Assignment 1-5 Leap Years

You are given a positive integer which represents an year. In this problem you'll have to find out whether the given positive integer represents a leap year or not.

Input

The input consists of exactly one line with a positive integer n in the range [1583, 3000].

Output

You are to output a single line containing “leap year” or “common year” depending on whether the integer n represents a leap year or not.

Sample Input 1

2024

Sample Output 1

leap year

Sample Input 2

1900

Sample Output 2

common year

Sample Input 3

2000

Sample Output 3

leap year

Sample Input 4

2026

Sample Output 4

common year